CONTENTS OF VOLUME 42

Aalders, L. E. See Hall, I. V., 124.
Ahearn, D. G. See Roth, F. J., Jr., 375.
Ahmad, K. J. Cuticular studies in Solanaceae, 793.
Bailey, D. L. See Kerr, E. A., 1541.
Bailey, D. L. and **Kerr, E. A.** *Cladosporium fulvum* race 10 and resistance to it in tomato, 1555.
Bannan, M. W. Tracheid size and anticlinal divisions in the cambium of *Pseudotsuga*, 603.
Tracheid size and anticlinal divisions in the cambium of lodgepole pine, 1105.
Baranyay, J. A. Bark moisture relationships in western hemlock branches infected by dwarf mistletoe, 1313.
Barker, W. G. See Collins, W. B., 1309.
Barker, W. G. and **Collins, W. B.** An effect of gibberellic acid upon the maturing of seeds in the lowbush blueberry, *Vaccinium angustifolium* Ait., 1102.
Belanger, L. See Fraser, D. A., 159.
Benedict, W. G. Studies on the effect of *Pseudomonas glycinea* on *Septoria glycines* development on foliage of the Harosoy soybean grown under controlled environmental conditions, 1135.
Beraha, L. See Strømnaes, Ø., 423.
Beraha, L., Garber, E. D., and **Strømnaes, Ø.** Genetics of phytopathogenic fungi. X. Virulence of color and nutritionally deficient mutants of *Penicillium italicum* and *Penicillium digitatum*, 429.
Bhowal, J. G. An unusual transmission rate of the deficient male gamete in a substitution monosomic of chromosome 3D in wheat, 1321.
Comparative growth and function of normal and deficient pollen in a substitution monosomic of chromosome 3D in wheat, 1329.
Bidwell, R. G. S. See Hellebust, J. A., 1, 357.
Boraiah, G. and **Heimburger, M.** Cytotaxonomic studies on New World *Anemone* (section *Eriocephalus*) with woody rootstocks, 891.
Bowden, W. M. Cytotaxonomy of the species and interspecific hybrids of the genus *Elymus* in Canada and neighboring areas, 547.
Boyer, M. G. A note on the artificial inoculation of white pine seedlings with the blister rust fungus, 335.
Studies on white pine phenols in relation to blister rust, 979.
Boyer, M. G. and **Isaac, P. K.** Some observations on white pine blister rust as compared by light and electron microscopy, 1305.
Bradshaw, M. E., Dansereau, P., and **Valentine, D. H.** Notes on the genus *Alchemilla* in southeastern Canada, 89.
Brandt, W. H. Morphogenesis in *Verticillium*: effects of light and ultraviolet radiation on microsclerotia and melanin, 1017.
Brewer, D. See Eveleigh, D. E., 35, 341.
Britton, D. M. Chromosome numbers of ferns in Ontario, 1349.
Brodie, H. J. See Lu, B. C., 307.
Brooke, R. C. See Stein, J. R., 1183.
Calder, J. A. See Moore, R. J., 1387.
Chabelska-Frydman, C. A new species of *Fusariella* from Israel, 1485.
Chamberlain, G. C., Willison, R. S., Townshend, J. L., and **de Ronde, J. H.** Two fungi associated with the dead-arm disease of grapes, 351.
Chen, P. K. See Venketeswaran, S., 1279.
Chouinard, L. A. Evidence for the existence of two types of nucleolar ribonucleoprotein in root meristematic cells of *Vicia faba*, 779.
Chua, S. E. and **Dickson, M. H.** The effect of flashing light supplemented by continuous red and far-red light on the growth of *Lemna minor* L. in the presence of growth regulators, 57.
Clark, D. See von Maltzahn, K. E., 831.
Cole, K. Induced fluorescence in gametophytes of some Laminariales, 1173.
Collins, J. See Racusen, D., 960.
Collins, W. B. See Barker, W. G., 1102.
Collins, W. B. and **Barker, W. G.** A flowering response of strawberry to continuous light, 1309.
Colotelo, N. and **Netolitzky, H.** Pycnidial development and spore discharge of *Plenodomus meliloti*, 1467.
Coupland, R. T. See Maini, J. S., 835.
Craigie, J. S. See Maass, W. S. G., 805; McLachlan, J., 287.

Craigie, J. S. and **McLachlan, J.** Excretion of colored ultraviolet-absorbing substances by marine algae, 23.
Glycerol as a photosynthetic product in *Dunaliella tertiolecta* Butcher, 777.
Cruise, J. E. Studies of natural hybrids in *Amelanchier*, 651.
Biosystematic studies of three species in the genus *Liatris*, 1445.
Dale, H. M. Influence of soil on weed vegetation on a drained river millpond, 823.
See also Sangster, A. G., 437.
Dansereau, P. See Bradshaw, M. E., 89.
Darker, G. D. A new *Leptosphaeria* species, an agent in the biological control of certain Hypodermataceae, 1005.
de Eilberg, B. A. See Soriano, A., 1189.
de Ronde, J. H. See Chamberlain, G. C., 351.
de Vries, B. See Ritchie, J. C., 677.
Dickson, M. H. See Chua, S. E., 57.
Dwight, T. W. See Fowler, D. P., 669.
Dwurazna, M. M. See Weintraub, M., 541.
Elliott, M. E. *Sclerotinia arctica* n. sp. on Carex from northern Canada, 1065.
Self-fertility in *Botryotinia porri*, 1393.
Epners, Z. A new psychrophilic fungus causing germination failure of conifer seeds, 1589.
Eveleigh, D. E. and **Brewer, D.** Ecological observations on the fungi and bacteria in slime accumulations in a paper mill, 35.
Nutritional requirements of the microflora of a slime accumulation in a paper mill, 341.
Ferguson, W. E. and **Nuttall, V. W.** The preservation of *Erwinia tracheiphila* by freeze-drying, 333.
Fisher, J. E. Evidence of circumnutational growth movements of rhizomes of *Poa pratensis* L. that aid in soil penetration, 293.
Fleischmann, G. Physiologic races of oat crown rust isolated from aecia on buckthorn and their relation to the racial population on oats in southeastern Ontario and Manitoba, 1151.
Production of telia of pure races of oat crown rust for genetic studies of virulence, 1457.
Foote, M. See Racusen, D., 960.
Forsyth, F. R. Surfactants as fungicides, 1335.
Forward, D. F. and **Nolan, N. J.** Growth and morphogenesis in the Canadian forest species. VII. Progress and control of longitudinal growth of branches in *Pinus resinosa* Ait., 923.
Fowler, D. P. and **Dwight, T. W.** Provenance differences in the stratification requirements of white pine, 669.
Frankton, C. See Moore, R. J., 451.
Fraser, D. A., Belanger, L., McGuire, D., and **Zdrazil, Z.** Total growth of the aerial parts of a white spruce tree at Chalk River, Ontario, Canada, 159.
French, D. W. See Schroeder, D. B., 205.
Funk, A. *Botryosphaeria tsugae* n. sp., causing dieback of western hemlock in British Columbia, 769.
Garber, E. D. See Beraha, L., 429; Strømnaes, Ø., 423.
Gfeller, F. See Siminovitch, D., 637.
Godin, C. See Weinberger, P., 329.
Gordon, C. C. and **Shaw, C. G.** Ascocarpic development in *Diporotheca rhizophila*, 1525.
Green, G. J. A color mutation, its inheritance, and the inheritance of pathogenicity in *Puccinia graminis* Pers., 1653.
Grinchenko, A. H. H. See Robinson-Jeffrey, R. C., 527.
Grummitt, W. E. Strontium-90 and cesium-137 in Canadian cereal grains 1957–1960, 367.
Hall, I. V., Aalders, L. E., and **Lockhart, C. L.** Note on some putative lowbush blueberry mutants, 124.
Hamlin, S. A. See Ross, R. G., 956.
Harrison, K. A. New or little known North American stipitate hydnums, 1205.
Hayman, D. S. *Rosellinia limoniispora*: nuclear changes in the developing ascus, 13.
Heimburger, M. See Boraiah, G., 891.
Hejnowicz, Z. Orientation of the partition in pseudotransverse division in cambia of some conifers, 1685.
Hellebust, J. A. and **Bidwell, R. G. S.** Protein turnover in attached wheat and tobacco leaves, 1.
Protein metabolism and respiration in attached and detached primary wheat leaves, 357.
Hickman, C. J. See Royle, D. J., 311.
Hochster, R. M. See Seitz, E. W., 999.

Holm-Hansen, O. Viability of lyophilized algae, 127.
Hubbes, M. New facts on host–parasite relationships in the hypoxylon canker of aspen, 1489.
Isaac, P. K. Cytoplasmic streaming in filamentous fungi, 787.
See also Boyer, M. G., 1305; King, M. K., 815.
Johnson, L. F. and **Osborne, T. S.** Survival of fungi in soil exposed to gamma radiation, 105.
Johnson, R. F. See Meyers, S. P., 519.
Juo, P-s. See MacNeill, B. H., 125.
Kamp, K. M. See Meyers, S. P., 519.
Kawano, S. See Koyama, T., 859.
Kemp, W. G. The identity of two sap-transmissible viruses of carnation in Ontario, 45.
Kendrick, W. B. The *Leptographium* complex. *Scopularia venusta* Preuss, 1119.
The *Leptographium* complex. *Hantzschia* Auerswald, 1291.
Kendrick, W. B. and **Proctor, J. R.** Computer taxonomy in the Fungi Imperfecti, 65.
Kerr, E. A. See D. L. Bailey, 1555.
Kerr, E. A. and **Bailey, D. L.** Resistance to *Cladosporium fulvum* Cke. obtained from wild species of tomato, 1541.
King, M. K. and **Isaac, P. K.** The uptake of glucose-6-T and glycine-2-T by *Rhizoctonia solani* Kuhn, 815.
Koyama, T. and **Kawano, S.** Critical taxa of grasses with North American and eastern Asiatic distribution, 859.
Krotkov, G. See Tregunna, E. B., 989.
Kuijt, J. Critical observations on the parasitism of new world mistletoes, 1243.
Kuntz, J. E. See Wall, R. E., 969.
Larsen, M. J. *Hyphodontia alutacea* in North America, 1167.
Lavallée, A. A larch canker caused by *Leucostoma kunzei* (Fr.) Munk ex Kern, 1495.
Layne, R. E. C. Cowpea, a new and useful host of *Erwinia amylovora*, 1711.
Ledingham, G. A. See Williams, P. G., 497, 1503.
Lemke, P. A. The genus *Aleurodiscus* (sensu stricto) in North America, 213.
The genus *Aleurodiscus* (sensu lato) in North America, 723.
Lockhart, C. L. See Hall, I. V., 124.
Lodha, B. C. See Subramanian, C. V., 1057.
Lortie, M. Production of perithecia of *Nectria galligena* Bres. in pure culture, 123.
Lowther, R. L. Further studies on the physiology of *Cladosporium fulvum* Cke. and resistance in tomato, 1365.
Lu, B. C. and **Brodie, H. J.** Preliminary observations of meiosis in the fungus *Cyathus*, 307.
Maass, W. S. G. and **Craigie, J. S.** Examination of some soluble constituents of *Sphagnum* gametophytes, 805.
Macdowall, F. D. H. Reversible effects of chemical treatments on the rhythmic exudation of sap by tobacco roots, 115.
McGuire, D. See Fraser, D. A., 159.
McIntosh, D. L. *Phytophthora* spp. in soils of the Okanagan and Similkameen valleys of British Columbia, 1411.
McKeen, W. E. and **Zimmer, R. C.** *Mycosphaerella convallaria* sp. nov. The cause of lily of the valley leaf blotch, 665.
MacKinnon, J. P. Some effects of virus source and acquisition feeding on the aphid transmission of potato leaf roll and turnip latent viruses, 1159.
McLachlan, J. See Craigie, J. S., 23, 777.
McLachlan, J. and **Craigie, J. S.** Algal inhibition by yellow ultraviolet-absorbing substances from *Fucus vesiculosus*, 287.
MacNeill, B. H. and **Juo, P-s.** Cross protection between strains of tobacco ringspot virus in *Physalis floridana* Rydb., 125.
Madhosingh, C. A serological comparison of three *Fusarium* species, 1143.
A serological comparison of isolates of *Fomes roseus* and *Fomes subroseus*, 1677.
Maini, J. S. and **Coupland, R. T.** Anomalous floral organization in *Populus tremuloides*, 835.
Mead, H. W. Infection of alfalfa seed by *Ascochyta imperfecta* Peck through the pod, 1101.
Meheriuk, M. and **Spencer, M.** Ethylene production during germination of oat seeds and *Penicillium digitatum* spores, 337.
Meredith, W. O. S. See Srivastava, B. I. S., 507.
Meyers, S. P., Kamp, K. M., Johnson, R. F., and **Shaffer, D. L.** Thalassiomycetes. IV. Analysis of variance of ascospores of the genus *Lulworthia*, 519.
Minshall, W. H. See Thorn, G. D., 1405.
Misra, P. C. and **Talbot, P. H. B.** *Phialomyces*, a new genus of Hyphomycetes, 1287.

Mohan Ram, H. Y. and **Steward, F. C.** The induction of growth in explanted tissue of the banana fruit, 1559.
Molnar, A. C. and **Sivak, B.** *Melampsora* infection of pine in British Columbia, 145.
Moore, A. W. Note on non-leguminous nitrogen-fixing plants in Alberta, 952.
Moore, R. J. and **Calder, J. A.** Some chromosome numbers of *Carex* species of Canada and Alaska, 1387.
Moore, R. J. and **Frankton, C.** A clarification of *Cirsium foliosum* and *Cirsium drummondii*, 451.
Moore, R. J. and **Mulligan, G. A.** Further studies on natural selection among hybrids of *Carduus acanthoides* and *Carduus nutans*, 1605.
Mott, R. J. See Terasmae, J., 1355.
Müller, E. See Shoemaker, R. A., 403.
Mueller-Dombois, D. The forest habitat types in southeastern Manitoba and their application to forest management, 1417.
Mukerji, K. G. See Rai, J. N., 693, 1521.
Mukherjee, K. L. and **Zabka, G. G.** Studies of multiple allelism in the Myxomycete *Didymium iridis*, 1459.
Mulligan, G. A. Chromosome numbers of the family Cruciferae. I, 1509.
See also Moore, R. J., 1605.
Munnecke, D. E. See Richardson, L. T., 301.
Naguib, M. I. Effect of benzoic acid and its derivatives on plant metabolism. 8. Effect of chlorobenzoic acid derivatives on the nitrogen metabolism of starved and sucrose-fed etiolated barley leaves, 197.
Naylor, J. M. See Raju, M. V. S., 1615.
Nelson, C. D. See Tregunna, E. B., 989.
Netolitzky, H. See Colotelo, N., 1467.
Nolan, N. J. See Forward, D. F., 923.
Nuttall, V. W. See Ferguson, W. E., 333.
O'Regan, W. G. See Paine, L. A., 1635.
Ormrod, D. P. Net carbon dioxide exchange rates in *Phaseolus vulgaris* L. as influenced by temperature, light intensity, leaf area index, and age of plant, 393.
Orpurt, P. A. The microfungal flora of bat cave soils from Eleuthera Island, the Bahamas, 1629.
See also Roth, F. J., Jr., 375.
Osborne, T. S. See Johnson, L. F., 105.
Owens, J. N. and **Smith, F. H.** The initiation and early development of the seed cone of Douglas fir, 1031.
Packer, J. G. Chromosome numbers and taxonomic notes on western Canadian and Arctic plants, 473.
Page, O. T. In vivo conversion of adenosine by potato leaves, 951.
Paine, L. A., Schwarzbart, G., and **O'Regan, W. G.** Estimation of growth – time temperature characteristics for isolates of *Fomes pini*, a heart rot fungus, 1635.
Pantidou, M. E. Cultural studies of Boletaceae: Carpophores of *Xerocomus badius* and *Xerocomus illudens* in culture, 1147.
A new *Suillus* from New York, 1713.
Parmelee, J. A. See Savile, D. B. O., 699.
Proctor, J. R. See Kendrick, W. B., 65.
Quick, W. A. and **Shaw, M.** The physiology of host–parasite relations. XIV. The effect of rust infection on the nucleic acid content of wheat leaves, 1531.
Racusen, D., Foote, M., and **Collins, J.** The major bean leaf protein by DEAE-cellulose chromatography, 960.
Ragetli, H. W. J. See Weintraub, M., 533, 541.
Rai, J. N., Tewari, J. P., and **Mukerji, K. G.** *Achaetomium*, a new genus of Ascomycetes, 693.
A new *Aspergillus* fr[illegible] Indian soils: *A. striatus* spec. nov., 1521.
Raju, M. V. S., Steeves, T. A., and **Naylor, J. M.** Developmental studies on *Euphorbia esula* L.: apices of long and short roots, 1615.
Rheaume, B. See Siminovitch, D., 637.
Rich, A. E. See Weeraratne, V., 885.
Richardson, L. T. and **Munnecke, D. E.** Effective fungicide dosage in relation to inoculum concentration in soil, 301.
Ritchie, J. C. Contributions to the Holocene paleoecology of westcentral Canada. I. The Riding Mountain area, 181.
Ritchie, J. C. and **de Vries, B.** Contributions to the Holocene paleoecology of westcentral Canada. A late-glacial deposit from the Missouri Coteau, 677.

Robinson-Jeffrey, R. C. and **Grinchenko, A. H. H.** A new fungus in the genus *Ceratocystis* occurring on blue-stained lodgepole pine attacked by bark beetles, 527.
Rollin, P. Remarques concernant l'action de la lumière sur la germination, 463.
Ross, R. G. and **Hamlin, S. A.** Growth of *Venturia inaequalis* in Box type Petri dishes, 956.
Roth, F. J., Jr., Orpurt, P. A., and **Ahearn, D. G.** Occurrence and distribution of fungi in a subtropical marine environment, 375.
Royle, D. J. and **Hickman, C. J.** Observations on *Phytophthora cinnamomi*, 311.
Sánchez, R. A. See Soriano, A., 1189.
Sangster, A. G. and **Dale, H. M.** Pollen grain preservation of underrepresented species in fossil spectra, 437
Savile, D. B. O. and **Parmelee, J. A.** Parasitic fungi of the Queen Elizabeth Islands, 699.
Schroeder, D. B. and **French, D. W.** Cultural characteristics and decay of wood fiber products by *Asterostroma cervicolor* (Berk. & Curtis) Massee and *Trechispora brinkmanni* (Bres.) Rogers & Jackson, 205.
Schwarzbart, G. See Paine, L. A., 1635.
Seitz, E. W. and **Hochster, R. M.** Lysopine in normal and in crown-gall tumor tissue of tomato and tobacco, 999.
Shaffer, D. L. See Meyers, S. P., 519.
Sharma, P. C. See Trivedi, B. S., 1235.
Shaw, C. G. See Gordon, C. C., 1525.
Shaw, M. See Quick, W. A., 1531.
Shaw, M. and **Srivastava, B. I. S.** The physiology of host–parasite relations. XIII. The effect of stem rust on purines in wheat leaves, 139.
Sherwood, P. L. See Slykhuis, J. T., 1123.
Shoemaker, R. A. *Seimatosporium* (=*Cryptostictis*) parasites of *Rosa*, *Vitis*, and *Cornus*, 411.
Conidial states of some *Botryosphaeria* species on *Vitis* and *Quercus*, 1297.
Shoemaker, R. A. and **Müller, E.** Generic correlations and concepts: *Clathridium* (=*Griphosphaeria*) and *Seimatosporium* (=*Sporocadus*), 403.
Siminovitch, D., Therrien, H., Gfeller, F., and **Rheaume, B.** The quantitative estimation of frost injury and resistance in black locust, alfalfa, and wheat tissues by determination of amino acids and other ninhydrin-reacting substances released after thawing, 637.
Sivak, B. See Molnar, A. C., 145.
Slykhuis, J. T. and **Sherwood, P. L.** Temperature in relation to the transmission and pathogenicity of wheat striate mosaic virus, 1123.
Smith, F. H. See Owens, J. N., 1031.
Smith, R. L. and **Wiedeman, V. E.** A new alkaline growth medium for algae, 1582.
Soper, J. H. Mapping the distribution of plants by machine, 1087.
Soriano, A., Sánchez, R. A., and **de Eilberg, B. A.** Factors and processes in the germination of *Datura ferox* L., 1189.
Spencer, M. See Meheriuk, M., 337; White, H. A., 1481.
Srivastava, B. I. S. Effect of gibberellic acid on water-soluble macromolecular components of leaves from dwarf-1 mutant of corn (*Zea mays* L.), 965.
The effect of gibberellic acid on ribonuclease and phytase activity of germinating barley seeds, 1303.
See also Shaw, M., 139.
Srivastava, B. I. S. and **Meredith, W. O. S.** The effect of gibberellic acid and N-ethylmaleimide on amylase activity, ascorbic acid, and glutathione in germinating barley seeds, 507.
Steeves, T. A. See Raju, M. V. S., 1615; Webster, T. R., 1665.
Stein, J. R. and **Brooke, R. C.** Red snow from Mt. Seymour, British Columbia, 1183.
Steward, F. C. See Mohan Ram, H. Y., 1559.
Stillwell, M. A. The fungus associated with woodwasps occurring in beech in New Brunswick, 495.
Strømnaes, Ø. See Beraha, L., 429.
Strømnaes, Ø., Garber, E. D., and **Beraha, L.** Genetics of phytopathogenic fungi. IX. Heterocaryosis and the parasexual cycle in *Penicillium italicum* and *Penicillium digitatum*, 423.
Subramanian, C. V. and **Lodha, B. C.** Two interesting Hyphomycetes, 1057.
Talbot, P. H. B. See Misra, P. C., 1287.
Terasmae, J. and **Mott, R. J.** Pollen deposition in lakes and bogs near Ottawa, Canada, 1355.
Tewari, J. P. See Rai, J. N., 693, 1521.
Therrien, H. See Siminovitch, D., 637.

Thorn, G. D. and **Minshall, W. H.** The effect of sodium dimethyldithiocarbamate on water uptake, transpiration, and stomatal opening, 1405.
Tippett, R. An investigation into the nature of the layering of deep-water sediments in two eastern Ontario lakes, 1693.
Townshend, J. L. See Chamberlain, G. C., 351.
Trainor, F. R. The effect of composition of the medium on morphology in *Scenedesmus obliquus*, 515.
See also Wiedeman, V. E., 958.
Tregunna, E. B., Krotkov, G., and **Nelson, C. D.** Further evidence on the effects of light on respiration during photosynthesis, 989.
Trivedi, B. S. and **Sharma, P. C.** Morphology of the bur of *Xanthium*, 1235.
Valentine, D. H. See Bradshaw, M. E., 89.
Venketeswaran, S. and **Chen, P. K.** Nutritional factors affecting growth, friability, and lignification of suspension cultures of higher plant cells, 1279.
von Maltzahn, K. E. and **Clark, D.** Variations in the sequence of karyokinesis and cytokinesis in regenerating moss leaf cells, 831.
Wall, R. E. and **Kuntz, J. E.** Water-soluble substances in dead branches of aspen (*Populus tremuloides* Michx.) and their effects on *Fomes igniarius*, 969.
Walne, P. L. See Wiedeman, V. E., 958.
Wang, C. J. K. Studies on *Trichosporium heteromorphum* Nannfeldt, 1011.
Ward, E. W. B. Stimulation of growth of a low-temperature basidiomycete due to heat sterilization of a culture medium, 283.
On the source of hydrogen cyanide in cultures of a snow mold fungus, 319.
The formation of stroma-like structures in cultures of a sterile low-temperature basidiomycete, 1025.
The utilization of nitrogen compounds, especially ammonia, by a low-temperature basidiomycete, 1071.
Webster, T. R. and **Steeves, T. A.** Developmental morphology of the root of *Selaginella kraussiana* A. Br. and *Selaginella wallacei* Hieron., 1665.
Weeraratne, V. and **Rich, A. E.** Effect of plant growth regulators on the infectivity of tobacco mosaic virus, 885.
Weinberger, P. and **Godin, C.** Glutamic decarboxylase in relation to leaf ontogeny and vernalization, 329.
Weintraub, M. On the size of the tomato ringspot virus, 633.
Weintraub, M. and **Ragetli, H. W. J.** Studies on the metabolism of leaves with localized virus infections. Particulate fractions and substrates in TMV-infected *Nicotiana glutinosa* L., 533.
Weintraub, M., Ragetli, H. W. J., and **Dwurazna, M. M.** Studies on the metabolism of leaves with localized virus infections. Mitochondrial activity in TMV-infected *Nicotiana glutinosa* L., 541.
Wensley, R. N. Occurrence and pathogenicity of *Valsa* (*Cytospora*) species and other fungi associated with peach canker in southern Ontario, 841.
White, H. A. and **Spencer, M.** The sites of alkaloid concentration in *Lupinus luteus* tissues, 1481.
Whitney, H. S. Physiological and cytological studies of basidiospore repetition in *Rhizoctonia solani* Kühn, 1397.
Wiedeman, V. E. The non-utilization of TRIS as a carbon or nitrogen source in the growth of green algae, 1581.
See also Smith, R. L., 1582.
Wiedeman, V. E., Walne, P. L., and **Trainor, F. R.** A new technique for obtaining axenic cultures of algae, 958.
Williams, P. G. and **Ledingham, G. A.** Preparation and properties of a mitochondrial fraction from wheat stem rust uredospores, 497.
Fine structure of wheat stem rust uredospores, 1503.
Willison, R. S. See Chamberlain, G. C., 351.
Young, E. G. The concentration of nucleic acids in some common marine algae, 1471.
Zabka, G. G. See Mukherjee, K. L., 1459.
Zalasky, H. The histopathology of *Macrophoma tumefaciens* infections in black poplar, 385.
Nomenclature and description of *Diplodia tumefaciens* (Shear) Zalasky [=*Macrophoma tumefaciens* Shear apud Hubert], 1049.
Microconidial state of *Cucurbitaria staphula* Dearness ex R. H. Arnold and R. C. Russell, 1586.
Zdrazil, Z. See Fraser, D. A., 159.
Zimmer, R. C. See McKeen, W. E., 665.